Catalyst Express 500 Series Switches Configuration Example

Document ID: 70485

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Introduction

This document describes the procedure you use to configure Cisco Catalyst Express 500 series switches for Smartport roles, VLANs, EtherChannels, Switch Port Analyzer (SPAN) and to perform interVLAN routing with the Cisco Catalyst Express 500 series switch.

Prerequisites

Requirements

Cisco recommends that you have knowledge of these topics:

- EtherChannels
- InterVLAN routing
- SPAN

Configure the Cisco Catalyst 500 series switch with initial network settings as mentioned in the Initial Swicth Configuration section of this document.

You can see the data sheet for the Cisco Catalyst 500 series switches to learn about the different models and the supported features in Cisco Catalyst Express 500 Series Switches.

Components Used

The information in this document is based on these software and hardware versions:

- Cisco Catalyst Express 500G−12TC that runs Cisco IOS® Software Release 12.2(25)FY
- Cisco 2800 Router that supports IEEE 802.1Q Trunk Encapsulation.
- Cisco Catalyst 3750 switches that support 802.1Q Trunk Encapsulation.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

Conventions

Refer to Cisco Technical Tips Conventions for more information on document conventions.

Initial Switch Configuration

Complete these steps in order to perform initial setup of the switch. Refer to the Getting Started Guide for the Catalyst Express 500 Switches for more information on the configuration procedure.

1. Make sure that nothing is connected to the switch.
2. Power the switch.
3. Wait for the SETUP LED to blink green.
4. Click **Setup**. A switch port LED begins to blink green.
5. When a switch port LED blinks green, connect your PC to that port.

   The LAN adapter of this PC must be configured to get the IP address via DHCP. The LEDs on the PC and the switchport blink green while the switch configures the connection (this takes around one minute).
6. Open a web browser. Complete these steps if the browser does not pull up the GUI automatically:

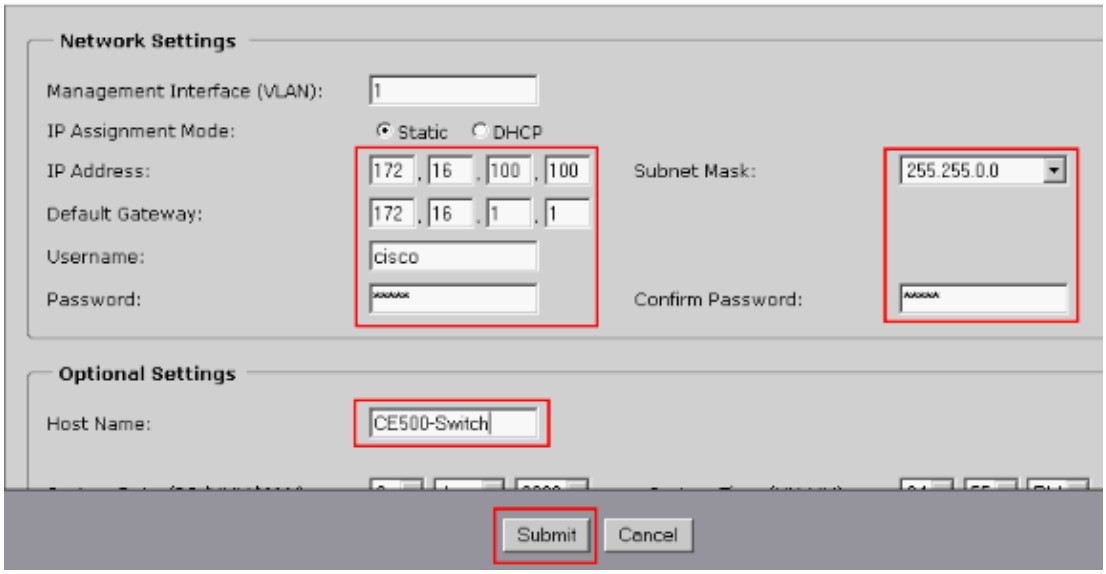
   a. Issue the **ipconfig** command in order to view the dynamic address allocation.

   C:\Documents and Settings\Administrator>ipconfig
Windows 2000 IP Configuration
Ethernet adapter Local Area Connection:
Connection-specific DNS Suffix . : apac.cisco.com
IP Address. . . . . : 169.254.0.2
Subnet Mask . . . . . : 255.255.255.248
Default Gateway . . . . . : 169.254.0.1

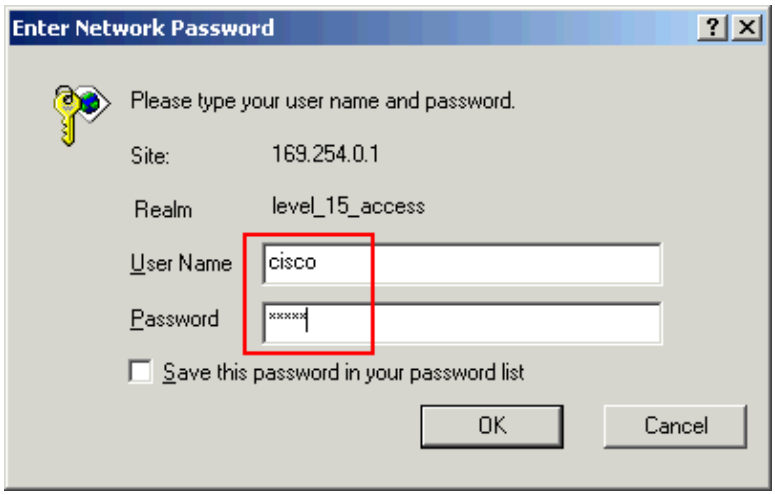
   The switch configures its management address as the Default Gateway for the LAN adapter card of the PC.

   Note: For Cisco IOS Software **FY** series releases, the management IP address is 10.0.0.1. For Cisco IOS Software **SEG** series releases, the IP address is 169.254.0.1.

   b. From the browser, go to the mentioned IP address. For example, **http://169.254.0.1**.
7. Enter the Network Settings and Optional Settings (if required). Click **Submit** in order to save changes and finish the basic configuration.

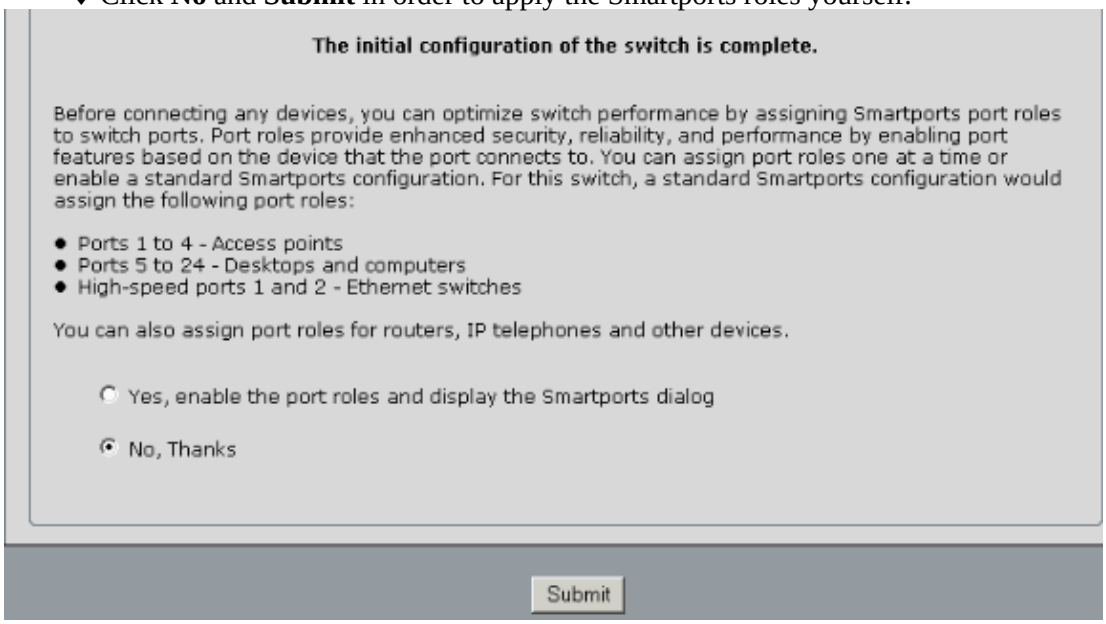


8. Enter the configured User Name and Password in order to continue the configuration of the switch.

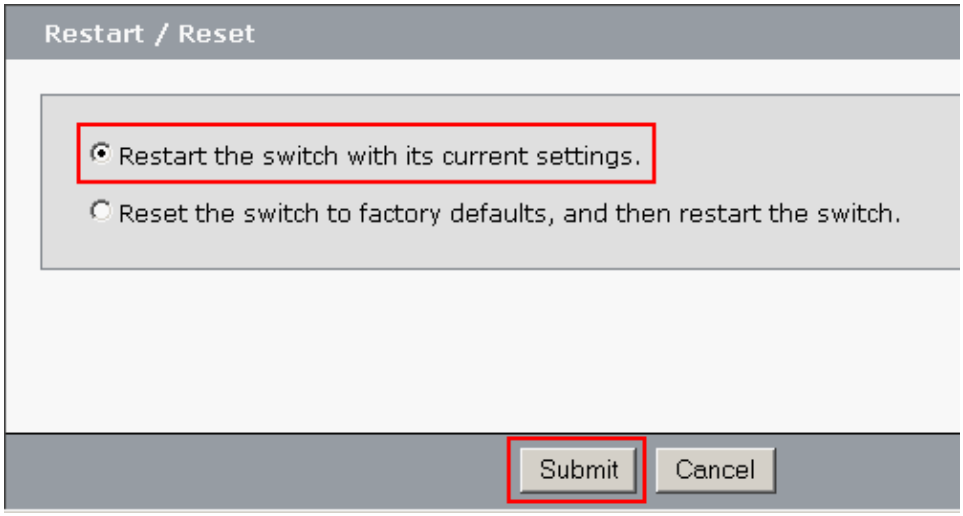


9. For the Smartports dialog window:

- Click **Yes** and **Submit** in order to accept the predefined port roles. The Smartports window appears. Here you can change the predefined roles or apply new port roles.
- Click **No** and **Submit** in order to apply the Smartports roles yourself.

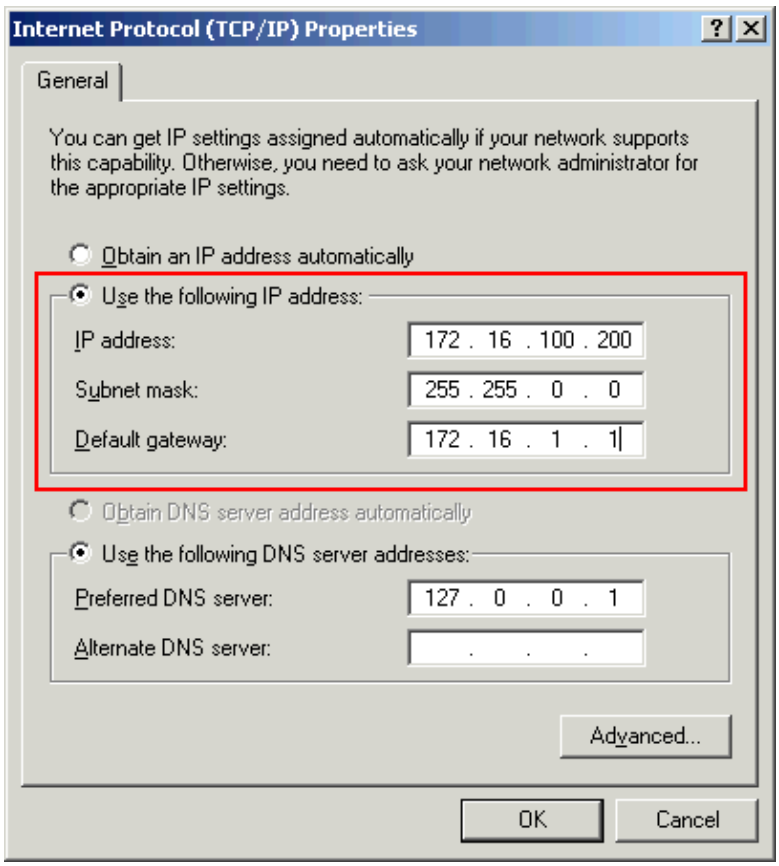

The initial configuration of the switch is complete.
Before connecting any devices, you can optimize switch performance by assigning Smartports port roles to switch ports. Port roles provide enhanced security, reliability, and performance by enabling port features based on the device that the port connects to. You can assign port roles one at a time or enable a standard Smartports configuration. For this switch, a standard Smartports configuration would assign the following port roles:
Ports 1 to 4 - Access points
Ports 5 to 24 - Desktops and computers
High-speed ports 1 and 2 - Ethernet switches
You can also assign port roles for routers, IP telephones and other devices.
Yes, enable the port roles and display the Smartports dialog
No, Thanks
Submit

10. Restart the switch without turning off the power.


Restart / Reset
Restart the switch with its current settings.
Reset the switch to factory defaults, and then restart the switch.
Submit
Cancel

The switch automatically reloads in 60 seconds. A counter displays the time that remains for the reload.

11. Close the web browser and reconfigure the LAN adapter with an IP address within the same subnet of the new management address of the switch.


Internet Protocol (TCP/IP) Properties
General
You can get IP settings assigned automatically if your network supports this capability. Otherwise, you need to ask your network administrator for the appropriate IP settings.
Obtain an IP address automatically
Use the following IP address:
IP address: 172 . 16 . 100 . 200
Subnet mask: 255 . 255 . 0 . 0
Default gateway: 172 . 16 . 1 . 1
Obtain DNS server address automatically
Use the following DNS server addresses:
Preferred DNS server: 127 . 0 . 0 . 1
Alternate DNS server:
Advanced...
OK
Cancel

12. When the switch comes up, open a web browser and go to

http://<*CE500_Management_IP_Address*> . For example, **http://172.16.100.100**.

Note: Once the initial configuration is complete, the switch can be managed through any switchport that is configured for the same VLAN as that of the management IP address.

Smartports

Smartport Roles

The Smartports are preconfigured switch ports that provide preset Cisco recommended network enhancements, Quality of Service (QoS) and security. Catalyst Express 500 series switches have a number of Smartport roles. Each port role is just a configuration template. With these templates, users can consistently and reliably configure essential security, availably, and QoS features with minimal effort and expertise. Smartport roles simplify the configuration of critical features.

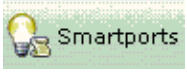
The port roles are based on the type of devices to be connected to the switch ports. For example, the Desktop port role is specifically for the switch ports that are connected to desktop or laptop PCs.

Smartport Role	Description
Desktop	Apply this role to ports that are connected to desktop devices, such as desktop PCs, workstations, notebook PCs, and other client−based hosts. • Optimized for desktop connectivity • Configurable VLAN setting • Port security enabled to limit unauthorized access to the network
Switch	Apply this role to ports that are connected to other switches. • Configured as an uplink port to a backbone switch for fast convergence • Enables 802.1Q trunking • Configurable native VLAN
Router	Apply this role to ports that are connected to WAN devices that connect to the Internet, such as routers and Layer 3 switches with routing service capabilities, firewalls, or VPN Concentrators. • Configured for optimal connection to a router or firewall for WAN connectivity • Enables 802.1Q trunking • Configurable native VLAN
IP Phone+Desktop	Apply this role to ports that are connected to IP phones. A desktop device, such as a PC, can be connected to the IP phone. Both the IP phone

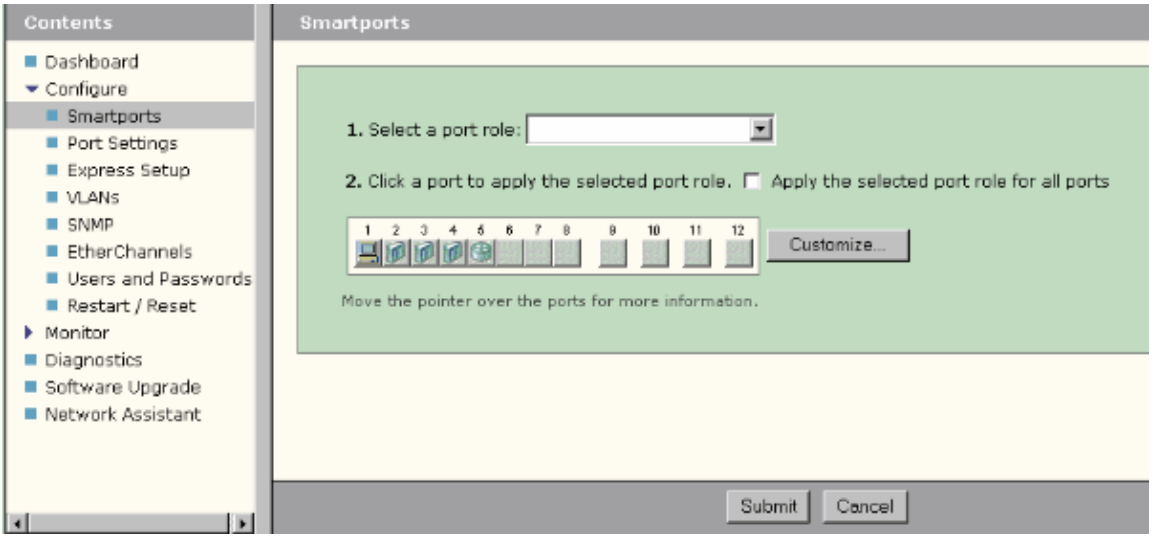
	and connected PC have access to the network and the Internet through the switch port. This role prioritizes voice traffic over data traffic to ensure clear voice reception on the IP phones. • Optimized QoS for IP Phone + Desktop configurations • Voice traffic is placed on Cisco−Voice VLAN • Configurable data VLAN • QoS level assures Voice over IP (VoIP) traffic takes precedence • Port security enabled to limit unauthorized access to the network
Access Point	Apply this role on switch ports that connect to non−Power over Ethernet (PoE) and PoE−capable wireless access points (APs). Connected to the AP are mobile devices, such as wireless laptop PCs. • Configured for optimal connection to a wireless access point • Enables 802.1Q trunking • Configurable native VLAN **Note:** Functionality of Cisco Wireless Bridges are more similar to that of a switch. So, Cisco recommends the **Switch** smartport role for Wireless Bridges.
Server	Apply this role to ports that are connected to servers that provide network services, such as Exchange servers, collaborative servers, terminal servers, file servers, Dynamic Host Configuration Protocol (DHCP) servers, IP private branch exchange (PBX) servers, and so on. This role is for Gigabit or non−Gigabit ports, based on the server type to be connected. • Configurable VLAN • Port security enabled to limit unauthorized access to the network This role prioritizes server traffic as trusted, critical, business, or standard, based on the function of the server. • **Trusted** For use with Cisco CallManager Express. The same QoS setting as Voice (VoIP traffic is prioritized). • **Critical** For critical servers with QoS set higher than the default.

	• **Business** The default setting. QoS is higher than desktop Internet traffic. • **Standard** For servers set to the same level as regular desktop Internet traffic.
Printer	Apply this role on switch ports that connect to a printer, such as a network printer or an external print server. This role prevents printer traffic from affecting voice and critical data traffic. • QoS settings for Printer are the same as Desktop, Access Point, and Standard Server • Configurable VLAN • Port security enabled to limit unauthorized access to the network
Guest	Apply this role to ports that are connected to desktop devices and to APs to provide guest wireless access. • Guests are allowed access to the Internet, but not to the company network. • All guest ports are placed on the Cisco−Guest VLAN. • Port security enabled to limit unauthorized access to the network.
Other	Apply this role on switch ports if you do not want to assign a specialized role on the port. This role can be used on connections to guest or visitor devices, printers, desktops, servers, and IP phones. It allows for flexible connectivity of non−specified devices. • Configurable VLAN • No security policy • No QoS policy
Diagnostic	Customers can connect diagnostics devices to monitor traffic on other switches (can be configured using Cisco Network Assistant only).

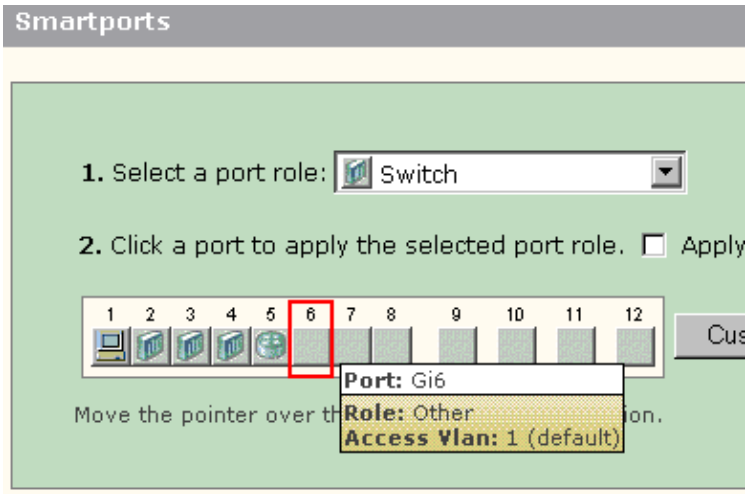
Apply Smartport Roles to Ports

Use the Smartports window to apply port roles to the switch ports. Select **Configure** > **Smartports** from the device manager menu to display this window. You can also click **Smartports** 

from the device manager tool bar.



From the Smartports window, you can see which Smartports role is applied to each port. Move the pointer over a port to display its port number, Smartports role, and VLAN ID (VLAN membership).


Smartports
1. Select a port role:
Switch
2. Click a port to apply the selected port role.
Apply
1 2 3 4 5 6 7 8 9 10 11 12
Port: Gi6
Role: Other
Access Vlan: 1 (default)

Before you use Smartports, decide which switch port you intent to connect to which device type. You can apply a Smartports role to a specific port or to all ports on the switch.

Restrictions

- We recommend that you do not change specific port settings after you enable a Smartports role on a port. Any port setting changes can alter the effectiveness of the Smartports role.
- Do not apply the Desktop role to ports that are connected to switches, routers, or APs.
- The Smartport role **Switch** automatically enables 802.1Q trunking on the port. If a remote switch does not support 802.1Q trunking or the trunking is manually turned off, the spanning tree state of the port on the remote switch goes to blocking for type inconsistency. If the remote switch is the root bridge, the switch port does not go to blocking mode. In this case, the switch port trunk status is ON at both ends of the switches, but there is not any communication between the switches through these ports. There are no diagnostic messages displayed on the Catalyst Express 500 device.

  Output from Remote Switch

```
%SPANTREE-7-RECV_1Q_NON_TRUNK: Received 802.1Q BPDU on non trunk GigabitEthernet2/0/
%SPANTREE-7-BLOCK_PORT_TYPE: Blocking GigabitEthernet2/0/1 on VLAN0002. Inconsistent
%LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan2, changed state to down
```

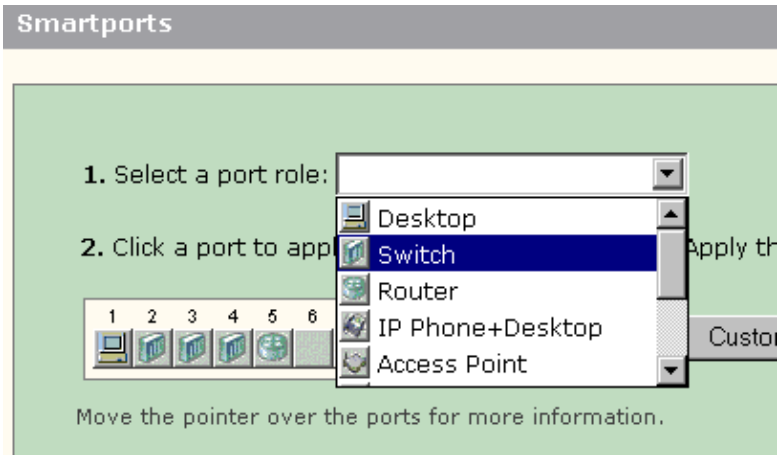
```
Switch2#show spanning-tree vlan 2


VLAN0002
  Spanning tree enabled protocol ieee
  Root ID    Priority    32770
             Address     0012.01c7.7c80
             This bridge is the root
             Hello Time   2 sec  Max Age 20 sec  Forward Delay 15 sec

  Bridge ID  Priority    32770  (priority 32768 sys-id-ext 2)
             Address     0012.01c7.7c80
             Hello Time   2 sec  Max Age 20 sec  Forward Delay 15 sec
             Aging Time 300

Interface        Role Sts Cost      Prio.Nbr Type
---------------- ---- --- --------- -------- --------------------------------
Gi2/0/1          Desg BKN*4         128.53   P2p *TYPE_Inc
```

- The Smartport role **Router** automatically enables 802.1Q trunking on the port. If the main interface of the remote router is used, make sure the interface of the router is part of the native VLAN of the switch port. The interface of the router can be sub−interfaced to provide interVLAN routing for the Cisco Catalyst Express 500 switch. See the Configure InterVLAN Routing with a Cisco Router section of this document for configuration details.
- You should have an additional VLAN named **Cisco−Voice** (case sensitive) to apply the **IP Phone+Desktop** Smartport role to the ports.
- You should have an additional VLAN named **Cisco−Guest** (case sensitive) to apply the **Guest** Smartport role to the ports.
- Do not apply the Other role to the ports that are connected to a sniffer or intrusion detection system devices.

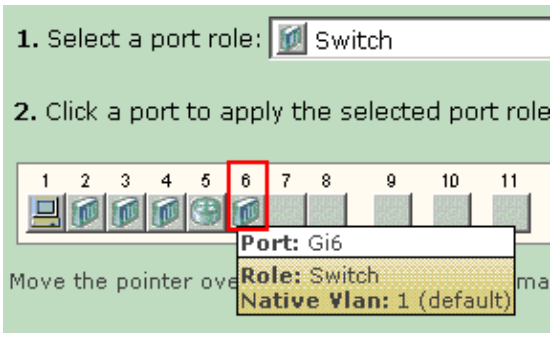
Apply a Smartports Role to a Single Port

Complete these steps to apply a Smartports role to a specific port:

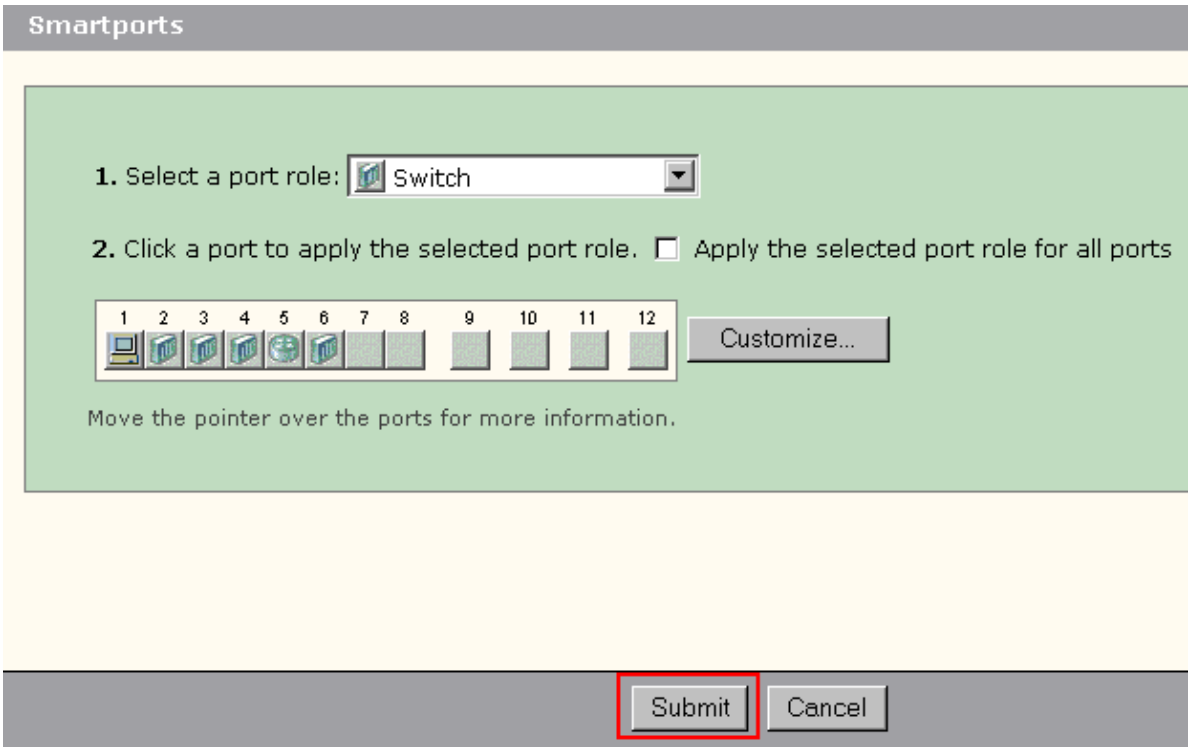
1. Choose a Smartports role from the Select a port role list.



2. Click on the port. The icon for the selected Smartports role appears on the port.


1. Select a port role:
Switch
2. Click a port to apply the selected port role
1 2 3 4 5 6 7 8 9 10 11
Port: Gi6
Role: Switch
Native Vlan: 1 (default)
Move the pointer ove
ma

3. Click **Submit** to save your changes.


Smartports
1. Select a port role:
Switch
2. Click a port to apply the selected port role.
Apply the selected port role for all ports
1 2 3 4 5 6 7 8 9 10 11 12
Customize...
Move the pointer over the ports for more information.
Submit
Cancel

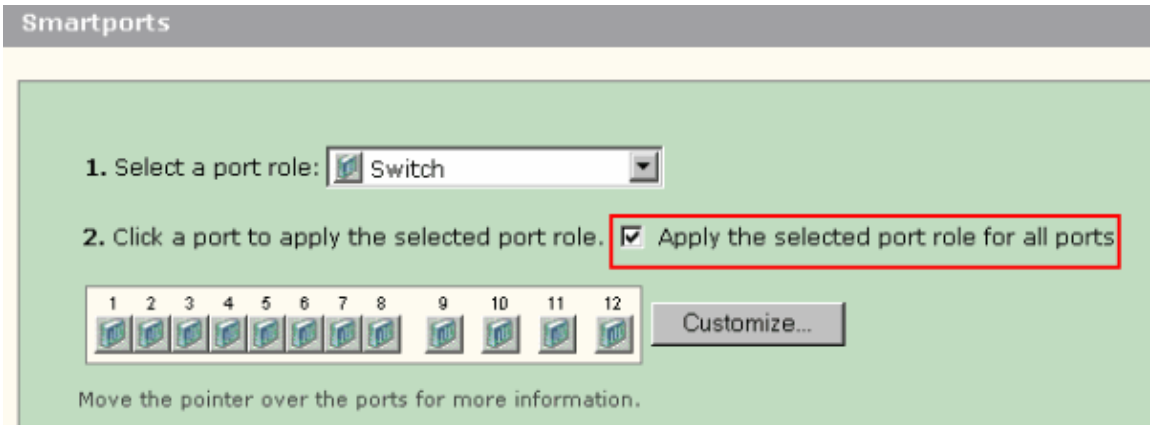
Complete these steps to remove the Smartports role applied to a port:

1. Choose **Other** from the Select a port role list.
2. Click on the port. The Other icon appears on the port.
3. Click **Submit** to save your changes.

Apply a Smartports Role to All Ports

Complete these steps to apply the selected Smartports role to all ports:

1. Choose a Smartports role from the Select a port role list.
2. Check **Apply the selected port role to all ports**. The icon for the selected Smartports role appears on the ports.


Smartports
1. Select a port role:
Switch
2. Click a port to apply the selected port role.
Apply the selected port role for all ports
1 2 3 4 5 6 7 8 9 10 11 12
Customize...
Move the pointer over the ports for more information.

3. Complete these steps for any port(s) that should not be applied with the selected port role:

    a. Choose another Smartports role from the Select a port role list.
    b. Click on the port. The icon for the selected Smartports role appears on the port.
4. Click **Submit** to save your changes.

Complete these steps to remove the Smartports role applied to all ports:

1. Choose **Other** from the Select a port role list.
2. Check **Apply the selected port role for all ports**. The Other icon appears on the ports.
3. Click **Submit** to save your changes.

Create / Delete VLANs

VLAN Types

The switch ships with a default VLAN to which all the switch ports initially belong. The switch supports a maximum of 32 VLANs, including the default VLAN. Using only the default VLAN might be sufficient based on the size and requirements of your network. We recommend that you first determine your VLAN needs before you create VLANs.

Note: Cisco Catalyst 500 series switches work in VTP Transparent mode. VLAN creation, modification, or deletion done on this switch does not affect the other switches in the domain.

This depends on the type of device that is connected to the switch port:

- A switch port applied with one of these port roles can belong only to an access VLAN:

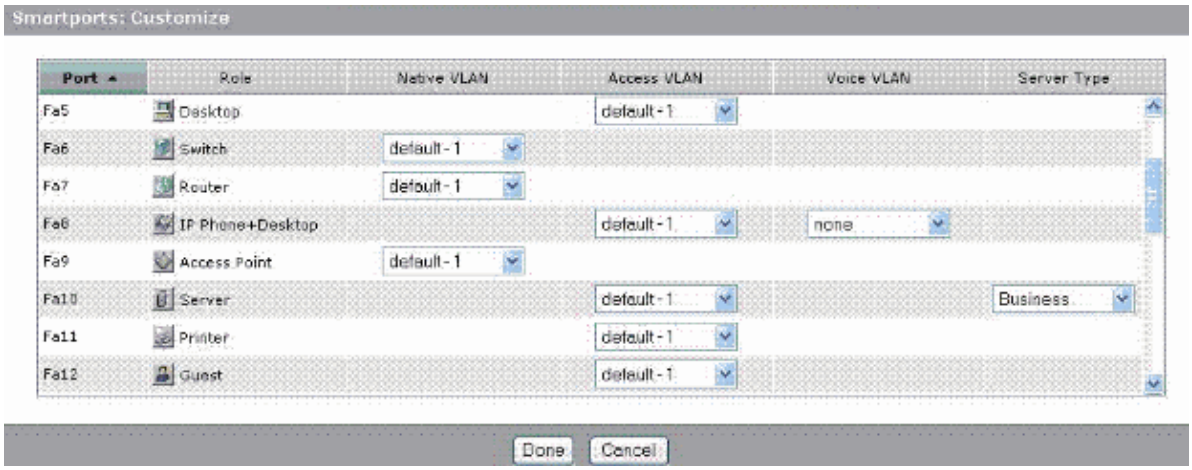
    ♦ Desktop
    ♦ IP Phone+Desktop
    ♦ Printer
    ♦ Server
    ♦ Guest
    ♦ Other

  The access VLAN provides the attached device with the specific access designed for that VLAN.
- A switch port applied with one of these port roles can send and receive traffic for all VLANs configured on the switch, one of which can be identified as a native VLAN:

    ♦ Switch
    ♦ Router
    ♦ Access Point

On this port, any traffic that is received or sent without the VLAN explicitly identified is assumed to belong to the native VLAN. Both the switch port and the attached device port must be in the same native VLAN.

Note: Select **Configure > Smartports > Customize** on the Device Manager to see the Port roles and associated VLANs.



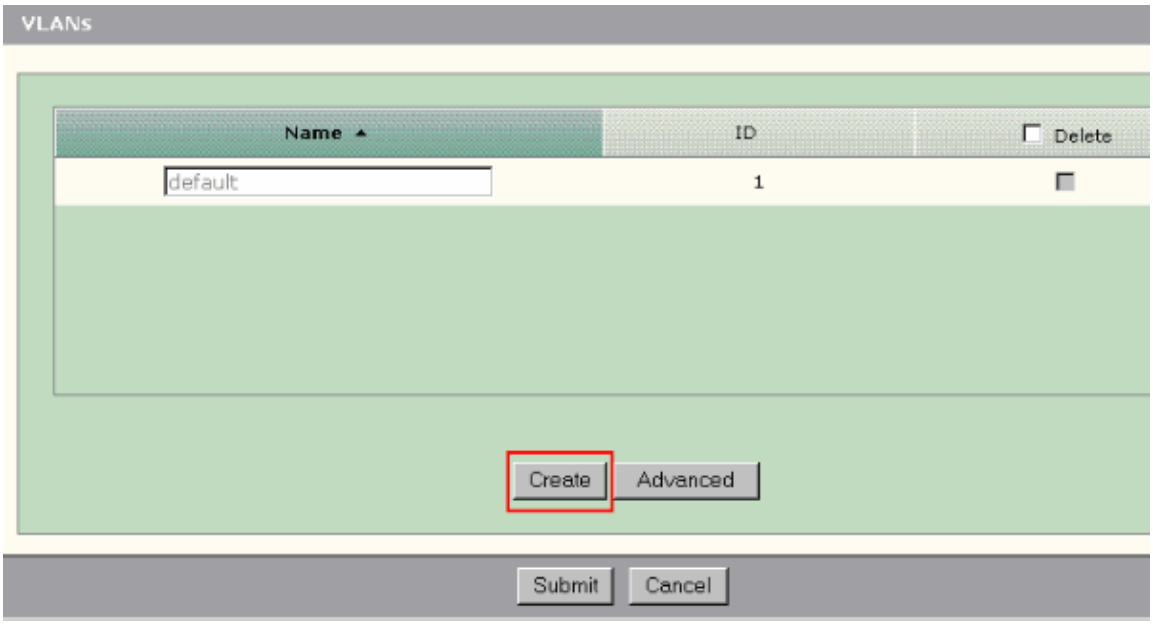
If your network requires that you segregate either or both voice and guest traffic, you need to create additional VLANs. If you create additional VLANs on the switch where you have IP Phone+Desktop and Voice Smartports, you must also create these VLANs:

- **Cisco−Guest** The VLAN to which all ports that are applied with the Guest port role must be assigned. This VLAN ensures that all guest and visitor traffic is segregated from the rest of your network traffic and resources. Ports with **Guest** Smartport roles should be assigned to this VLAN.
- **Cisco−Voice** The VLAN to which all ports that are applied with the IP Phone+Desktop port role must be assigned. This VLAN ensures that all voice traffic has better QoS and is not mixed with data traffic. The voice VLAN of ports with **IP Phone+Desktop** Smartport roles should be assigned to this VLAN.

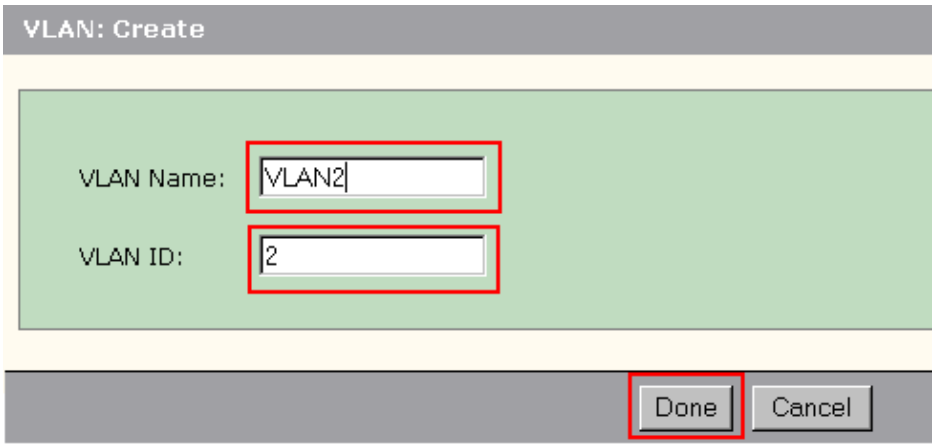
Use the VLANs window to create and delete VLANs. Select **Configure** > **VLANs** from the Device Manager menu to display this window.

Complete these steps to create a VLAN:

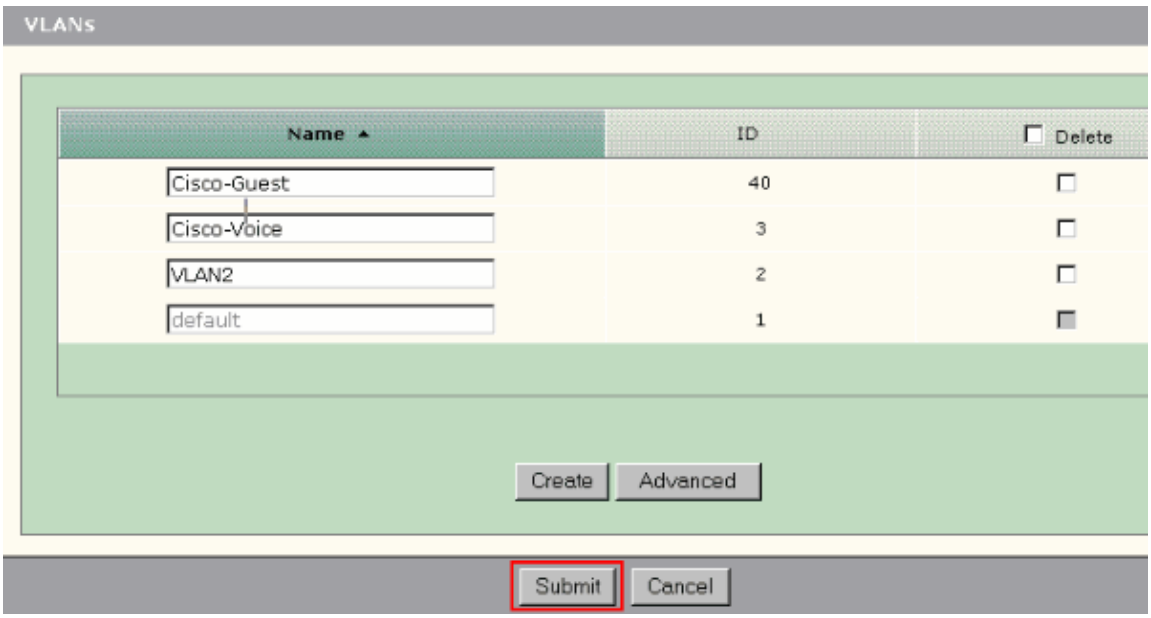
1. Click **Create** on the VLANs window.



2. Enter the name and ID for the VLAN.
3. Click **Done**.



4. Repeat steps 1 through 3 until you create the necessary VLANs.
5. Click **Submit** to save the changes.

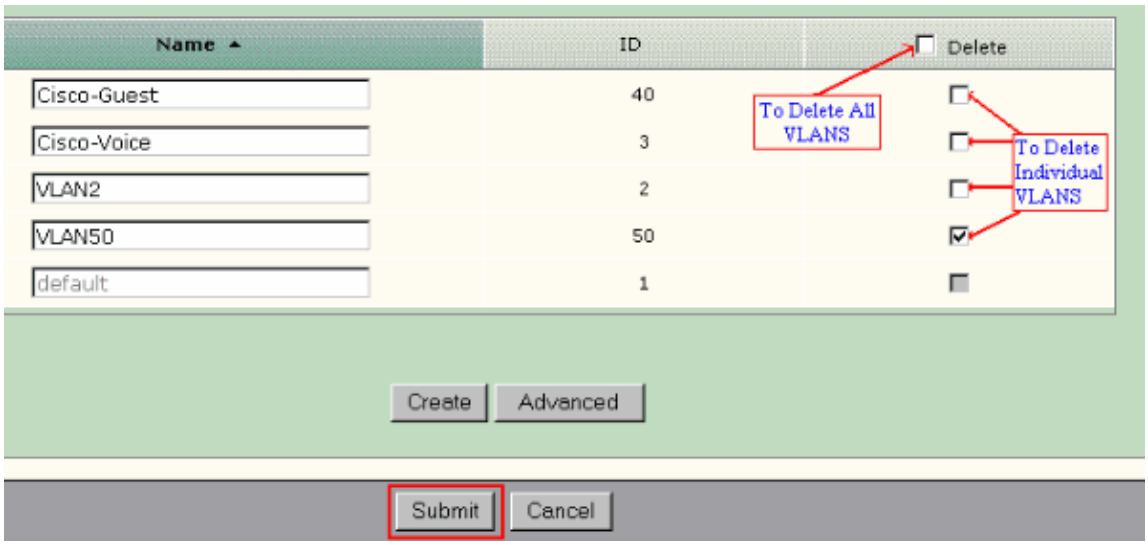


Note: If you have any ports with the IP Phone+Desktop role, you must create the Cisco−Voice VLAN. If you have any ports with the Guest port role, you must create the Cisco−Guest VLAN. If you create VLANs without Cisco−Voice and Cisco−Guest VLANs and you click **Submit**, this error message appears.

Microsoft Internet Explorer
Error:
A user-defined VLAN has been created.
You must create a VLAN named Cisco-Voice if any ports are applied with the IP Phone+Desktop port role.
You must also create a VLAN named Cisco-Guest if any ports are applied with the Guest port role.
OK

Complete these steps to delete VLAN(s):

1. Check the check box at the top of the Delete column to select all VLANs or check the check box for one or more specific VLANs.



2. Click **Submit** to save your changes. Click **OK** in the Delete VLAN confirmation pop−up window.

Change VLAN Memberships

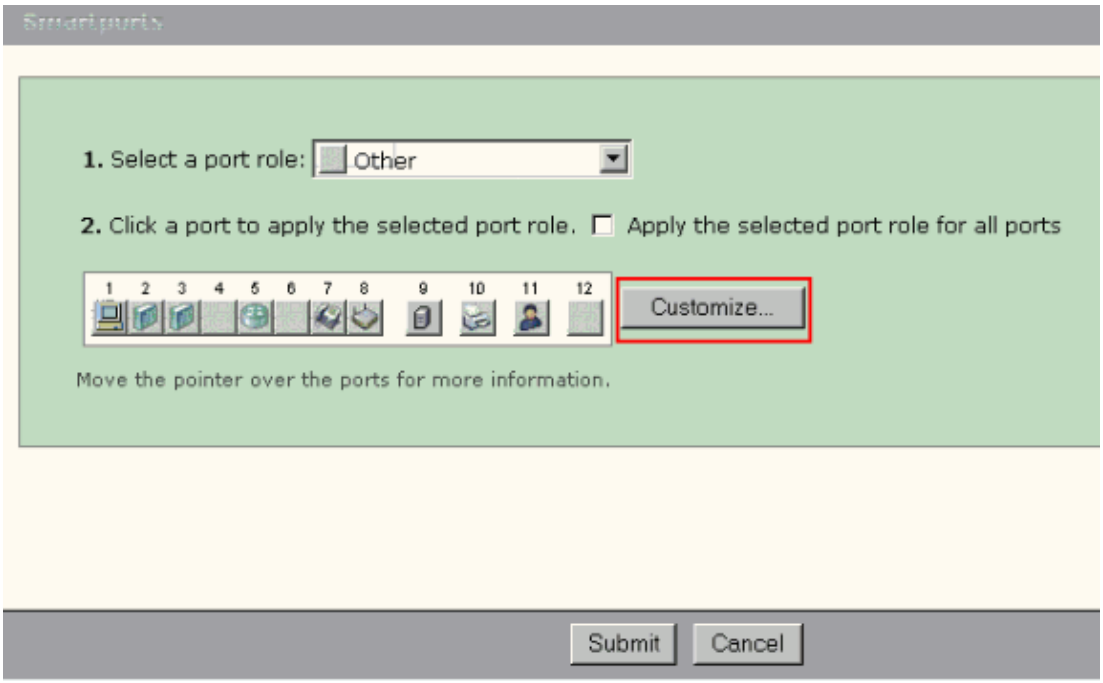
Specific VLAN memberships can be changed for the ports part of these Smartport roles:

- **Native VLAN** Switch, Router, and Access Point
- **Access VLAN** Desktop, IP Phone+Desktop, Server, Printer, Guest, and Other

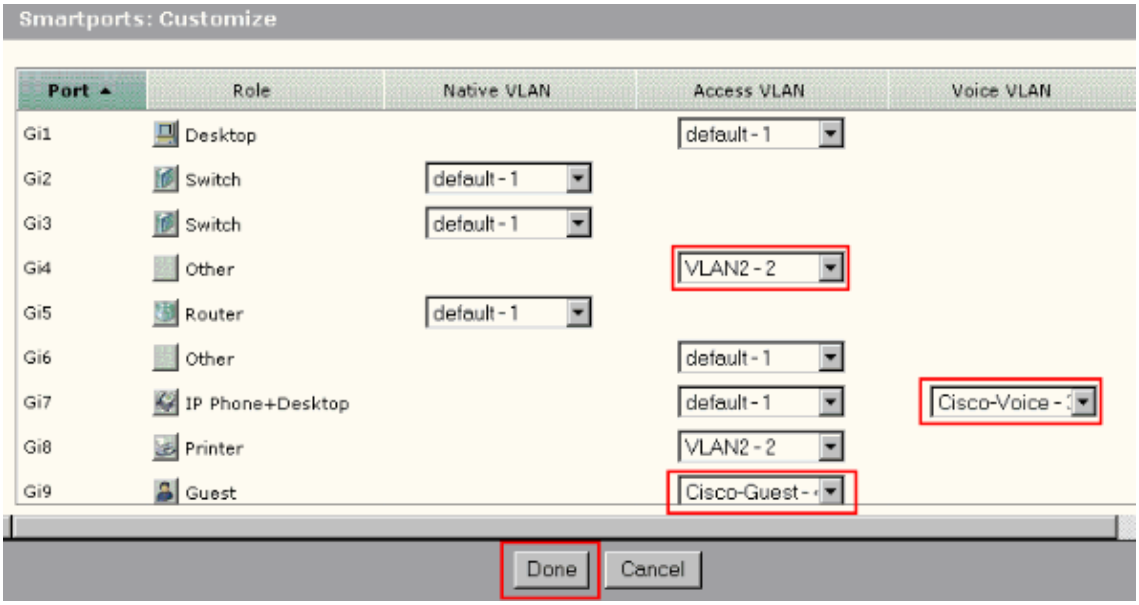
  Note: Access VLAN for the Guest role should be Cisco−Guest VLAN.
- **Voice VLAN** IP Phone+Desktop. Voice VLAN should be only the Cisco−Voice VLAN.

Use the Smartports Customize window to assign ports to VLANs. Select **Configure** > **Smartports** from the Device Manager menu to display this window.

1. Click **Customize** on the Smartports window.


1. Select a port role: Other
2. Click a port to apply the selected port role. Apply the selected port role for all ports
1 2 3 4 5 6 7 8 9 10 11 12
Customize...
Move the pointer over the ports for more information.
Submit
Cancel

2. Choose appropriate VLAN(s) for each port.



3. Click **Done**.
4. Click **Submit** to save your changes.

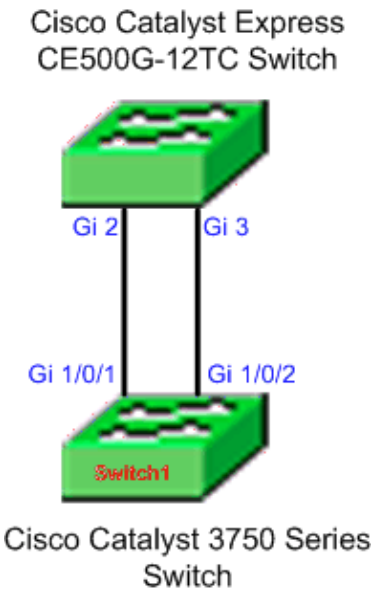
Configure EtherChannels

An EtherChannel is a group of two or more Fast Ethernet or Gigabit Ethernet switch ports bundled into a single logical link that create a higher bandwidth link between two switches. The switch supports up to six EtherChannels.

All ports in an EtherChannel must have the same characteristics:

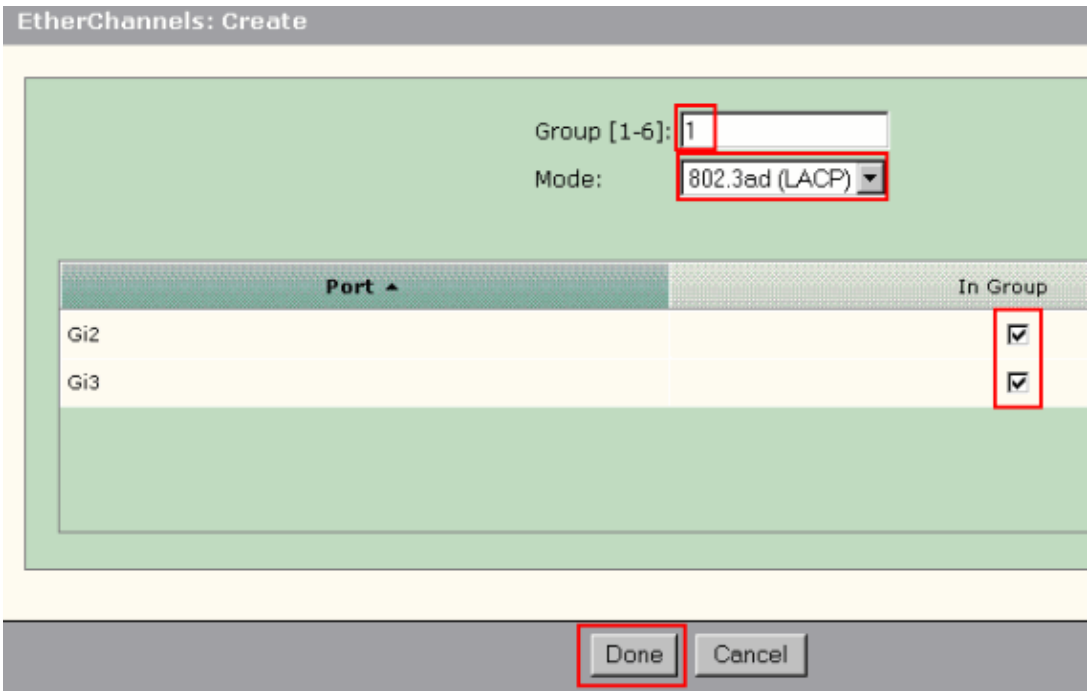
- All ports are either 10/100 ports or all 10/100/1000 ports. You cannot group a mix of 10/100 and 10/100/1000 ports in an EtherChannel.
- All ports have the same speed and duplex mode settings.
- All ports are applied with the Smartports Switch port role and belong to the same VLAN.

Complete these steps to create EtherChannels between a Cisco Catalyst Express 500 and another switch:



1. From the Device Manager of the Cisco Catalyst Express 500 switch, select **Configure** > **EtherChannels** to display the EtherChannels window.
2. Click **Create**.
3. Enter the Channel Group ID.
4. Choose the Channel Protocol (mode) for the Mode list.

   Note: The Catalyst Express 500 switch supports two modes called LACP and Static. Configure the remote switch according to the mode you have chosen.
5. Click on the checkboxes against the ports which should be part of the channel.
6. Click **Done** and click **Submit** to save your changes.



7. If you have chosen LACP protocol to negotiate the channel, then configure the remote switch as this output shows:

```
Switch1(config)#interface gi1/0/1
```

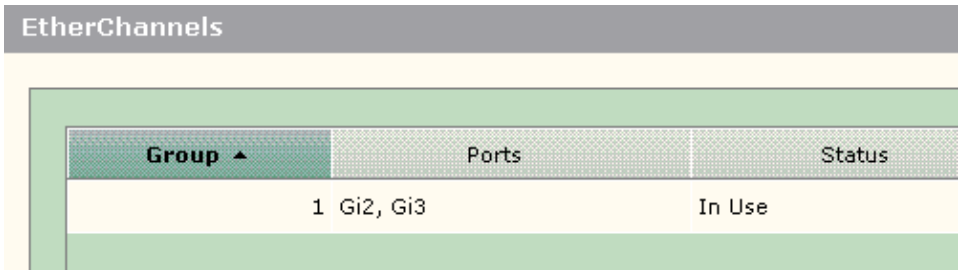
```
Switch1(config-if)#channel-group 1 mode active
Switch1(config-if)#interface gi1/0/2
Switch1(config-if)#channel-group 1 mode active
```

If you choose to configure the channel statically, then configure the remote switch as this output shows:

```
Switch1(config)#interface gi1/0/1
Switch1(config-if)#channel-group 1 mode on
Switch1(config-if)#interface gi1/0/2
Switch1(config-if)#channel-group 1 mode on
```

Verify

Open the **Configure > EtherChannels** window to verify the status of the EtherChannel created. The status should be displayed as 'In Use'. Otherwise, you can run diagnostics on the ports to determine the problem.



Issue the **show etherchannel summary** command in the Cisco 3750 switch to verify the status of the EtherChannel configuration. The Protocol field in the output displays LACP if it is used to negotiate the channel, blank or otherwise.

```
Switch#show etherchannel summary
Flags:  D - down        P - in port-channel
        I - stand-alone s - suspended
        H - Hot-standby (LACP only)
        R - Layer3      S - Layer2
        U - in use      f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port


Number of channel-groups in use: 1
Number of aggregators:           1

Group  Port-channel  Protocol    Ports
------+-------------+-----------+-----------------------------------------------
1      Po1(SU)         LACP      Gi1/0/1(P)  Gi1/0/2(P)
```

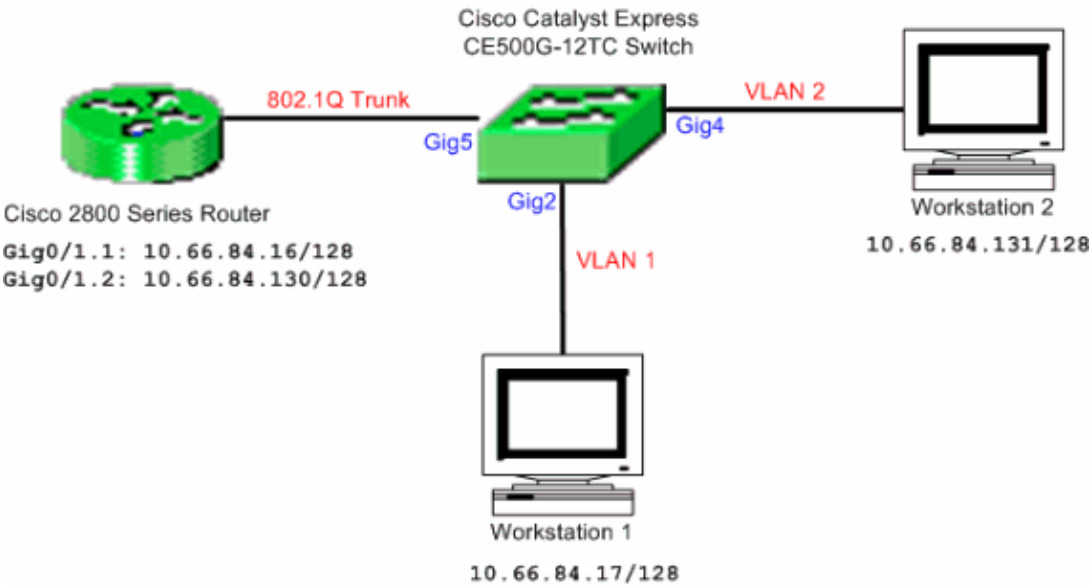
You can also see the Catalyst 500 switch log from **Monitor > Alert Log** on the Device Manager. This example shows the EtherChannel error message due to the EtherChannel misconfiguration on the remote switch.

Alert Log

Severity	Description	Time Stamp
5-Notification	Port Fa23: This port is suspended because it is configured to be a member of Ether Channel and the partner port is either not configured to be a member of Ether Channel or the configured Ether Channel is of incompatible type.	Jun 26, 2006 15:32:19
5-Notification	Port Fa24: This port is suspended because it is configured to be a member of Ether Channel and the partner port is either not configured to be a member of Ether Channel or the configured Ether Channel is of incompatible type.	Jun 26, 2006 15:32:19

Configure InterVLAN Routing with a Cisco Router

Network Diagram



Note: The sample configuration makes use of the Cisco 2800 series router. This can be replaced with any Cisco router that supports IEEE 802.1Q trunking.

Complete these steps to configure interVLAN routing with a Cisco router:

1. Complete these steps to configure the Cisco Catalyst Express 500 switch:

    a. Apply the Desktop Smartport role to ports Gig2 and Gig4. See the Apply Smartport Roles to Ports section of this document for the configuration procedure.
    b. Apply the Router Smartport role to port Gig5.
    c. Apply the appropriate VLAN IDs to the ports.

        ◊ Assign VLAN 1 as the access VLAN for the port Gig2.
        ◊ Assign VLAN 2 as the access VLAN for the port Gig4.
        ◊ Assign VLAN 1 as the native VLAN for port Gig5.

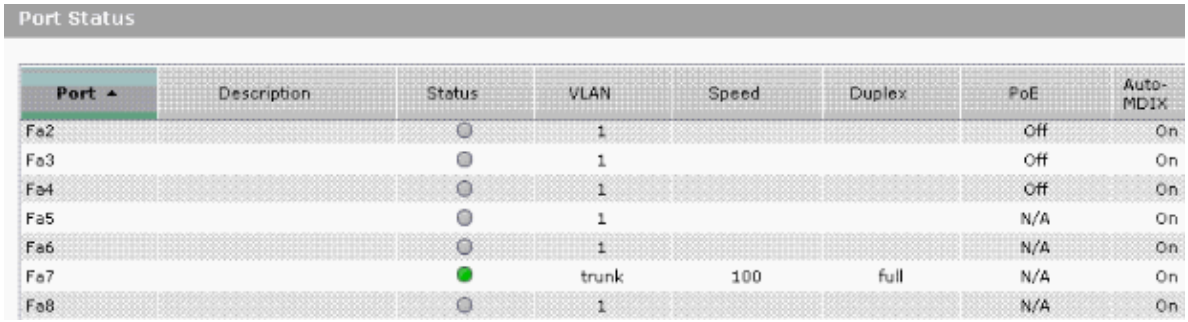
    See the Change VLAN Memberships section of this document for the configuration procedure.
2. Configure the Cisco 2800 series router:

```
Router(config)#interface GigabitEthernet0/1.1
Router(config-subif)#encapsulation dot1Q 1 native
Router(config-subif)#ip address 10.66.84.16 255.255.255.128
Router(config-subif)#interface GigabitEthernet0/1.2
```

```
Router(config-subif)#encapsulation dot1Q 2
Router(config-subif)#ip address 10.66.84.130 255.255.255.128
```

Verify

Select **Monitor > Port Status** on the Device Manager to see the switch port trunk status on the Catalyst Express 500 switch.



Port Status

Port	Description	Status	VLAN	Speed	Duplex	PoE	Auto-MDIX
Fa2			1			Off	On
Fa3			1			Off	On
Fa4			1			Off	On
Fa5			1			N/A	On
Fa6			1			N/A	On
Fa7			trunk	100	full	N/A	On
Fa8			1			N/A	On

Verify if the ping from Workstation 1 to Workstation 2 passes.

```
C:\>ping 10.66.84.131

Pinging 10.66.84.131 with 32 bytes of data:

Reply from 10.66.84.131: bytes=32 time<10ms TTL=128
Reply from 10.66.84.131: bytes=32 time<10ms TTL=128
Reply from 10.66.84.131: bytes=32 time<10ms TTL=128
Reply from 10.66.84.131: bytes=32 time<10ms TTL=128

Ping statistics for 10.66.84.131:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum =  0ms, Average =  0ms
```

Run a trace to verify the path taken to communicate between Workstation 1 and Workstation 2.

```
C:\>tracert 10.66.84.131

Tracing route to 10.66.84.131 over a maximum of 30 hops

  1   <10 ms   <10 ms   <10 ms  10.66.84.16
  2   <10 ms   <10 ms   <10 ms  10.66.84.131

Trace complete.
```

Configure Switched Port Analyzer (SPAN)

The Switched Port Analyzer (SPAN) feature, which is sometimes called port mirroring or port monitoring, selects network traffic for analysis by a network analyzer. The network analyzer can be a Cisco SwitchProbe device or other Remote Monitoring (RMON) probe. The switch supports only the Local SPAN and does not support Remote SPAN.

The destination port should be configured with the Diagnostics Smartport role. This can only be done using the Cisco Network Assistant software. Refer to SPAN on Catalyst Express 500 for configuring the Catalyst Express 500 switch to monitor traffic.

Reset the Catalyst Express 500 Switch to Factory Default Settings

If you have connectivity to the Device Manager of the switch and you want to reset the switch to factory default settings and retain the current Cisco IOS system software, refer to the Reset the Switch Using the Device Manager section of Reset the Catalyst Express 500 Series Switches to Default Factory Settings.

If you do not have connectivity to the Device Manager of the switch and you want to reset the switch to the factory default, refer to the Reset the Switch When the Device Manager Is Not Available section of Reset the Catalyst Express 500 Series Switches to Default Factory Settings.

Refer to the Recover the Switch Software section of User Guide for the Catalyst Express 500 Switches − Troubleshooting for more information on the recovery procedure.

Verify

There is currently no verification procedure available for this configuration.

Troubleshoot

There is currently no specific troubleshooting information available for this configuration.

Related Information

- **Getting Started Guide for the Catalyst Express 500 Switches**
- **User Guide for the Catalyst Express 500 Switches**
- **Understanding EtherChannel Load Balancing and Redundancy on Catalyst Switches**
- **Configuring InterVLAN Routing and ISL/802.1Q Trunking on a Catalyst 2900XL/3500XL/2950 Switch Using an External Router**
- **Switches Product Support**
- **LAN Switching Technology Support**
- **Technical Support & Documentation − Cisco Systems**

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